

SOCOL, Sebastian; EVGHENIDE, Constantin; IONASCUT, Arion

Considerations about telecontrol and automation in crude oil  
and gas extraction and transportation. Automatica electronica  
6 no.3:95-101 My-Je '62.

EVGHENIDE, C.; IACOB, I.; IONASCUT, A.; SOCOL, S.

Specific weight continuous measuring device for pipeline transported  
naphta and petroleum products. Antomatica electronica 6 no.5:215-  
220 S-0 '62.

EVGHENIDE, C., ing.; SOCOL, S., ing.

Additional explanations regarding the simultaneous employment  
of several hydraulic bottom hole compensators in the same well.  
Petrol si gaze 12 no.8:376 Ag '62.

EVGHENIDE, C., ing; SLEV, V., ing.; SOCOL, S., ing.

Interpretation of the signals and indications received from a central supervisory-control station set up for recording the natural and artificial eruptions of wells: Petrol se gaze 13 no.3:121-125 Mr '62

1. Institutul de Cercetari pentru Foraj si Extractie (for Evghenide).
2. Schela Boldesti (for Slev).
3. Ministerul Industriei Petrolului si Chimiei (for Socol).

EVGHENIDE, C., ing.; SLEV, V., ing.; SOCOL, S., ing.

Interpretation of signals and indications, concerning the deep pumping wells, received at a central station for the telecontrol of crude oil extraction. Petrol si gaze 13 no.4:177-181 Ap '62.

1. Institutul de Cercetari pentru Foraj si Extractie (for Evghenide). 2. Schela Boldesti (for Slev). 3. Ministerul Industriei Petrolului si Chimiei (for Socol).

IACOB, I., ing.; SOCOL, S., ing.; EVGHENIDE, C., ing.; IONASCUT, A., ing.

Considerations on the automatic apparatus for the volumetric measurement of crude oil flow for the collecting stations.  
Petrol si gaze 13 no.5:219-228 My '62.

1. Institutul de Cercetari pentru Foraj si Extractie (for Iacob, Evghenide, Ionascut).
2. Ministerul Industriei Petrolului si Chimiei (for Socol).

IACOB, I., ing.; SOCOL, S., ing.; EVGHENIDE, C., ing.;  
IONASCUT, A., ing.

Automatic equipment for volumetric measurements  
of crude oil flows in collecting stations, achieved  
in Rumania. Petrol si gaze 13 no.8:343-352 Ag '62.

1. Institutul de Cercetari pentru Foraj si Extractie  
(for Iacob, Evghenide, Ionascut). 2. Ministerul  
Industriei Petrolului si Chimiei (for Socol).

SOCOL, S. (R.P. Romina)

Collaboration for the development of the oil and gas  
industry. Problema econ 15 no.8:73-81 Ag '62.



EVGHENIDE, C., ing.; IACOB, I., ing.; SOCOL, S., ing.

Level regulators in gas-crude oil separators on the laminary  
type. Petrol si gaze 14 no.4:189-193 '63.

SOCOL, S., ing.; EVGHENIDE, G., ing.

Considerations on some improvements in the technological processes of  
crude oil extraction as a result of automation. Petrol si gaze 14 no.  
11:547-554 N 63.

~~SOKOLESKU, Aurelian~~ [Socolescu, Aurelian] (Rumyniya)

4-LD-150 boring rig. Nauka i zhizn' 25 no.7:70 J1 '58. (MIRA 11:9)  
(Boring machinery)

SOCOLESU, GRIGORE

✓ Hydrometallurgical treatment of complex sulfur minerals by the initial elimination of iron. Grigore Socolescu. *Acad. rep. populare Române, Bul. științ. Sect. științ. tehn. și chim.* 4, 283-9(1953).—The method consists of the initial calcination of the sulfurous concentrates in a reducing-gas flow, in order to remove the unstable S of pyrites, which is recovered as elemental S. Treatment with 20%  $H_2SO_4$  effects the soln. of Fe and Zn sulfides.  $H_2S$  obtained is converted into S. The mixt. of sulfates is sepd. into solid  $Fe_2O_3$  (Fe min. of good quality) and a soln. of Zn sulfate, which is used for the electrolysis of Zn. The residue obtained by the soln. of Fe and Zn is roasted in an oxidizing atm., then treated with  $H_2SO_4$ . A soln. of  $CuSO_4$  is obtained which can be crystd. or used for the Cu electrolysis. From the residue, Pb is recovered by the electrolysis of  $PbCl_2$  and the noble metals by cyanuration. The method is successfully applied to all the sulfurous compds., complex minerals, Fe included, and their slags, and permits the utilization of all the contained elements. The yields on extrn. of S, Fe, Zn, and Cu exceed 90 but usually approach 99%.  
T. Z. Dénessy

RUM/9-10-10-1/58

AUTHORS: Socolescu, Gr., Engineer, Triandaf, A.,  
Engineer, Mavromati, V., Engineer, and  
Isopescu, Al., Engineer.

TITLE: Production of Titanium Carbide and Ferrotita-  
nium from Domestic Raw Materials (Fabricarea  
carburii de titan și a ferotitanului din  
materii prime indigene)

PERIODICAL: Metalurgia și Construcția de Mașini, Vol. 10,  
Nr 10, p 847-848 (RUM) 1958

ABSTRACT: Experiments that were conducted in 1957, on the  
possible use of titanium contained in alluvial  
sands, showed that titanium carbide and ferro-✓

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RUM/9-10-10-1/58

Production of Titanium Carbide and Ferrotitanium from Domestic Raw Materials

Titanium white or titanium oxide were used as raw materials to produce titanium carbide. The titanium oxide solution which contained titanium sulfates, titanil sulfates, and ferrous and ferric sulfates, was purified by reducing the ferric cations to ferrous cations, cold crystallization of the ferrous sulfate, and filtration. The purified solution was hydrolyzed during which the  $\text{Ti}(\text{SO}_4)_2$  was converted into  $(\text{TiO})\text{SOH}$  by contact with water, and finally yielded 75 to 76%  $\text{TiO}_2$ ; the  $\text{TiO}_2$  contents totaled 99.2%. Sulfuric acid consumption was 4.7 kg per kg of  $\text{TiO}_2$ . To obtain titanium carbide, titanium oxide was mixed with

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RUM/9-10-10-1/58

Production of Titanium Carbide and Ferrotitanium from Domestic Raw Materials

carbon black, and the mixture was heated at 2,000°C in a Tamann furnace. The parameters of the furnace operation: Temperature 1,900 to 1,950°C; time 95 to 100 minutes; carbon contents of the initial charge 31 to 33%. The obtained product contained 17.5 to 18% bound carbon and 0.05 to 0.6% free carbon, and had a specific weight of 4.5 to 4.7 g/cm<sup>3</sup>. This carbide was alloyed with CW and Co and subsequently used for manufacturing hard tool tips with satisfactory results. To produce ferrotitanium by the aluminothermic process, an ilmenite concentrate of the composition TiO<sub>2</sub> = 46-48%, Fe = 33-36%, SiO<sub>2</sub> = 1.7-3.5% was blended with powdered aluminum, iron oxide, and lime, in various proportions. The mixture was then preheated at approximately 400°C and ignited by a fuse. The various tests yielded ✓

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Production of Titanium Carbide and Ferrotitanium from Domestic  
Raw Materials

several types of ferrotitanium having the following composition: 17.7 to 22% Ti; 0.1 to 0.2% C; 1.7 to 3.5% Si; 3.2 to 5.8% Al; 3% Cu; and 0.02 to 0.03% S. These ferrotitanium types corresponded to the GOST 4761/49 requirements for T<sub>1</sub> and T<sub>2</sub> qualities. Specific consumptions were indicated in pertinent literature. There are 5 references, one of which is Rumanian, 2 French, 1 Soviet and 1 German. ✓

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SOCULESCU, M

C 4

**Ore deposits in the region of Vata-Solmus-Buceava-Săvârdena-Zam, Departamentul Hunedoara and Arad M. Săulescu. *Comp. rend. Inst. geol. Roumanie* 28, 131-133 (1939-40) (Pub. 1944). Many deposits, contg. chiefly pyrite, with minor galena, sphalerite, and chalcopyrite, occur in melaphyres around the peripheries of quartz-diorite and granodiorite intrusives. Michael Fleischer**

A 50 3 L A METALLURGICAL LITERATURE CLASSIFICATION

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14-00000

1.3m, 0.3m, 1.2m

1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 26

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45																									
A B C D E F G H I J K L M N O P Q R S T U V W X Y Z AA AB AC AD AE AF AG AH AI AJ AK AL AM AN AO AP AQ AR AS AT AU AV AW AX AY AZ BA BB BC BD BE BF BG BH BI BJ BK BL BM BN BO BP BQ BR BS BT BU BV BW BX BY BZ CA CB CC CD CE CF CG CH CI CJ CK CL CM CN CO CP CQ CR CS CT CU CV CW CX CY CZ DA DB DC DD DE DF DG DH DI DJ DK DL DM DN DO DP DQ DR DS DT DU DV DW DX DY DZ EA EB EC ED EE EF EG EH EI EJ EK EL EM EN EO EP EQ ER ES ET EU EV EW EX EY EZ FA FB FC FD FE FF FG FH FI FJ FK FL FM FN FO FP FQ FR FS FT FU FV FW FX FY FZ GA GB GC GD GE GF GH GI GJ GK GL GM GN GO GP GQ GR GS GT GU GV GW GX GY GZ HA HB HC HD HE HF HG HH HI HJ HK HL HM HN HO HP HQ HR HS HT HU HV HW HX HY HZ IA IB IC ID IE IF IG IH II IJ IK IL IM IN IO IP IQ IR IS IT IU IV IW IX IY IZ JA JB JC JD JE JF JG JH JI JJ JK JL JM JN JO JP JQ JR JS JT JU JV JW JX JY JZ KA KB KC KD KE KF KG KH KI KJ KL KM KN KO KP KQ KR KS KT KU KV KW KX KY KZ LA LB LC LD LE LF LG LH LI LJ LK LM LN LO LP LQ LR LS LT LU LV LW LX LY LZ MA MB MC MD ME MF MG MH MI MJ MK ML MN MO MP MQ MR MS MT MU MV MW MX MY MZ NA NB NC ND NE NF NG NH NI NJ NK NL NO NP NQ NR NS NT NU NV NW NX NY NZ OA OB OC OD OE OF OG OH OI OJ OK OL OM ON OO OP OQ OR OS OT OU OV OW OX OY OZ PA PB PC PD PE PF PG PH PI PJ PK PL PM PN PO PP PQ PR PS PT PU PV PW PX PY PZ QA QB QC QD QE QF QG QH QI QJ QK QL QM QN QO QQ QR QS QT QU QV QW QX QY QZ RA RB RC RD RE RF RG RH RI RJ RK RL RM RN RO RP RQ RR RS RT RU RV RW RX RY RZ SA SB SC SD SE SF SG SH SI SJ SK SL SM SN SO SP SQ SR SS ST SU SV SW SX SY SZ TA TB TC TD TE TF TG TH TI TJ TK TL TM TN TO TP TQ TR TS TT TU TV TW TX TY TZ UA UB UC UD UE UF UG UH UI UJ UK UL UM UN UO UP UQ UR US UT UU UV UW UX UY UZ VA VB VC VD VE VF VG VH VI VJ VK VL VM VN VO VP VQ VR VS VT VU VV VW VX VY VZ WA WB WC WD WE WF WG WH WI WJ WK WL WM WN WO WP WQ WR WS WT WU WV WW WX WY WZ XA XB XC XD XE XF XG XH XI XJ XK XL XM XN XO XP XQ XR XS XT XU XV XW XX XY XZ YA YB YC YD YE YF YG YH YI YJ YK YL YM YN YO YP YQ YR YS YT YU YV YW YX YY YZ ZA ZB ZC ZD ZE ZF ZG ZH ZI ZJ ZK ZL ZM ZN ZO ZP ZQ ZR ZS ZT ZU ZV ZW ZX ZY ZZ																									
<p>1ST AND 2ND ORDERS</p> <p>PROCESSES AND PROPERTIES INDEX</p> <p>100 AND 4TH ORDERS</p> <p>SOCCOLESU, M.</p> <p>CA</p> <p>Geological and mining study of Mt. Metalliteres (Au field and neighboring region). T. P. Ghitulescu and M. Socolescu. <i>Anuar. inst. geol. Romaniei</i> 21, 181-284 (1941); <i>Chem. Zentr.</i> 1943, II, 1264. — A detailed description of the southern chain of the Apuseni Massif in western Transylvania and its ore deposits. Michael Fleischer</p> <p>ASW SLA METALLURGICAL LITERATURE CLASSIFICATION</p>																									

COMMON ELEMENTS																									
1ST AND 2ND ORDERS													3RD AND 4TH ORDERS												
SOCOLESU, M.																									
Ca																									
<p>Iron and manganese deposits of the upper part of the Aries basin. M. Socolescu. <i>Compt. rend. inst. geol. Roumanie</i> 26, 105-114 (1937-8) (Pub. 1911) (in French). - Small high-grade deposits of hematite occur in cryst. schists.</p> <p>Michael Fleischer -</p>																									
<p>ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION</p>																									

SOCOLESCU, M., and others.

Topografic reductions of deflections from the vertical. p. 37

STUDII SI CERCETARI DE FIZICA

Vol. 7, no. 1, Jan./Mar. 1956

Rumania

Source: EAST EUROPEAN LISTS

Vol. 5, no. 10

Oct. 1956

SECRET, 1.

A chart of isostatic anomalies and "if free air" for Oltenia and Muntenia.

p. 277 (Academia Republicii Populare Romine. Institutul de Fizica. Studii Si Cercetari De Fizica. Vol. 7, no. 2, Apr./June 1956. Bucuresti, Rumania)

Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 2,  
February 1956

SCCOLESCU, M., AND OTHERS.

Determining the residual anomalies on the basis of the data from gravimetric measurements. In Russian. p. 119.

REVUE DE PHYSIQUE. JOURNAL OF PHYSICS. (Academia Republicii Populare Romine)  
Bucuresti, Rumania. Vol. 3, no. 2, 1958.

Monthly List of East European Accessions (EEAI) IC, Vol. 8, no. 7, July 1959.

Uncl.

SOCULESCU, M., IANCU, G.

Exploration of non ferrous metal ores. p. 338

REVISTA MINELOR. (Ministerul Minelor, Ministerul Industrii Petrolului si  
Shimiei, Directia Exploatarilor Miniere si Asociatia Stiintifica a Inginerilor  
si Tehnicienilor din Romania) Bucuresti, Rumania. Vol. 10, No. 8, Aug. 1959

Monthly List of East European Accessions (EEAI) LC, Vol. 9, No. 2, Feb. 1960  
Uncl.

BOGDANESCU, M.; DIACONU, Fl.; KISSLING, M.

Contributions to the knowledge of the genesis of the mineralization  
in the Blazna Valley. Rev min 12 no.6:253-258 Je '61.



SOCOLESU, M.; ANDRONESCU, A.; DUMA, N.

New mineralogical observations on the polymetal mineralizing of the Handalu Ilbei deposit. Rev min 13 no.10:444-446 0 '62.

SOCOLESU, M., prof.; BUTUCESCU, N.; POPESCU, Th.; SAMOILA, I.;  
TEODORESCU, D.; DRAGILA, M.

Contributions to the knowledge of stanniferous mineralizing in the  
Baia Borsa, Burloia ore. Rev min 13 no.11:481-487 N '62.

SOCOLESU, Mircea; STOENESCU, Scarlat; POPOVICI, Dorin

First results of new measurements with a pendulum in Rumania,  
1957-1958. Probleme geofiz 2:19-26 '63.

SOCOLIESCU, M.; BONEA, Lidia; HAIDUC, P.

Contributions to the knowledge of the copper mineralization at  
the Pirul lui Avram, Muntii Apuseni. Rev min 14 no.9:393-402 S '63.

SOCOLOVSKI, R.

A method for the indirect volumetric determination of phosphates. Rev chimie Min petr 13 no.5:306 My '62.

SOCOLOVSKI, R.

Rapid determination of phosphorus from phosphorus copper. Rev. chimie.  
Min petr 13 no.10:618 0 '62.

Infectious Diseases

RUMANIA

VAINER, E., Dr, Col, SOCOSAN, Gh., Dr, Lt-Col, and GHEORGHIU, D.,  
Dr, Lt-Col [affiliation not given]

"Clinical-Radiological Considerations on Pulmonary Tuberculoma."

Bucharest, Revista Sanitara Militara, Vol 62, No 4, Jul-Aug 66,  
pp 699-707.

Abstract: The authors describe six cases of pulmonary tuberculoma, emphasizing the considerable differences among them and the variety of clinical and therapeutic approaches, and discuss the general classification and treatment of pulmonary tuberculoma.

Includes 6 figures and 6 references, of which 4 Rumanian, one Italian and one French. -- Manuscript submitted 2 June 1965.

Country : POLAND Q-5  
 Category : Farm Animals.  
 The Honey Bee.  
 Abs. Jour : Ref Zhur-Biol., No 16, 1958, 74167  
 Author :  
 Institut. :  
 Title :  
 Orig Pub. :  
 Abstract : which were placed on the nets. In the III group the beehives were also furnished with nets, but here training was performed attempting to direct the bees to chestnut trees and white clover. In the IV group, control, the beehives' entrances were left open. Results: on 30 May, 4 June, and 26-31 July the temperature in the nests of groups II and III was significantly lower than of the groups I and IV. The colonies of group I presented the smallest losses of bees; the hive temperature

Card: 2/3



SOCZEK, Zygmunt

Biotic tests for the determination of the growth substances in plants.  
Wiad botaniczne 6 no.1.33-64 '62.

HANKIEWICZ, Janusz; SOCZEK-MICHAŁSKA, Janina; SZENIC, Julian; PIETRASZUN, Romuald.

Hemorrhage from the upper segment of the digestive tract of unknown etiology according to data of the Second Surgical Clinic of the Academy of Medicine in Lodz. Polski Przegl. chir. 30 no.5:511-514 May 58.

(GASTROINTESTINAL SYSTEM, hemorrh.

upper segment, unknown etiol. (Pol))

SOCHAK-N. S. et al.

Observations on portal hypertension in patients in the  
Surgical Clinic of the Medical Academy in Lodz and  
the results after surgical treatment in urgent cases  
of portal hypertension. Pol. tyg. lek. 20 no.24:900-901  
1975.

SOCZEWICA, W.

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POLAND

KULESZA, Aleksandra; Department of Epidemiology (Zaklad Epidemiologii), PZH (Panstwowy Zaklad Higieny -- State Institute of Hygiene), Director: Prof Dr J. KOSTRZEWSKI, Head of the Institute: Prof Dr E. PRZESMYCKI; with the collaboration of J. GOLEA, T. JOPKIEWICZ, M. ZACPRZAK, W. KOCIELSKA, M. KOPEC, K. LIPINSKA, R. LUTYNSKI, J. MAKAREWICZ, H. MALYSZKO, K. NEYMAN, A. OLES, S. PESKA, K. POPIELEWICZ, T. RODKIEWICZ, J. RZEWADOWNA, W. SOCZEWICA, S. SZCZESNIAK, D. ZOLNIE-RZOWA all of the Wojewodztwo Health and Epidemiological Stations (Wojewodzkie Stacje Sanitarne-Epidemiologiczne); H. BOBROWSKI, A. GECOW, J. GELBER, M. GRUSZCZYNSKA, H. JASTRZEB-SKA, E. JUZWA, J. KUROCZKIN, Z. RESZKE, R. STANCZYK, J. SYC-NATOWICZOWA, Z. SZCZERSKA, K. SZCZYGIELSKI, S. SZYNDLAR, K. SWICOWA, J. WAJSZCZUK, R. WARZECHA all of the Departments of Poliomyelitis Patients (Oddzialy dla Chorych na Polio-myelitis) of the Wojewodztwo Health and Epidemiological Stations; J. ADAMSKI (Poznan), H. DOBROWOLSKA (Warsaw), J. BOCHENSKA (Lodz), M. KOENIG (Krakow); H. DOBROWOLSKA of the Department of Virology (Zaklad Wirusologii) of PZH.

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POLAND

Director: Prof Dr F. PRZESMYCKI, technical aid: A. BACINSKA

"Epidemic Situation of Poliomyelitis in Poland in 1961"

Warsaw, Przegląd Epidemiologiczny, Vol XVI, No 4, 1962,  
pp369-375.

Abstract: /Authors: English summary modified/ The profound influence on the epidemiology, etiology and clinical picture of poliomyelitis of the introduction of mass immunization with attenuated polio vaccines in 1959 is discussed. Observations on the influence and effect of immunizations with such vaccines on the epidemic situation of poliomyelitis in Poland are reported. 4 tables, 2 diagrams; 5 Polish references.

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JAMROG, Dariusz; RECZEK, Janina; SOCZKOWSKA, Zofia

Replacement of daily sampling with a single-stage test in the study of lead excretion in exposed workers. Med. pracy 16 no.2:96-101 '65

1. Ze Stacji Sanitarno-Epidemiologicznej dla m. Warszawy (Dyrektor: dr. J. Letki).

SOCZEKINSKI, E. ; WAKSMUNDZKI, A.,

E. SOCZEKINSKI, "Countercurrent extraction in a system: liquid-liquid, as a method of separating mixtures," Chemical News (Poland), Vol. IX No. 9, September 1955

Country : POLAND E  
 Category : Analytical Chemistry. Analysis of Organic Substances  
 Abs. Jour : Ref Zhur - Khim., No 5, 1959, No. 15138  
 Author : Waksmundzki, A.; Soczewinski, E.; Aksanowski, R.  
 Institut. : -  
 Title : Chromatographic Separation of Quinoline Bases on Buffered Paper  
 Orig Pub. : Chem. analit., 1957, 2, No 5, 459-462  
 Abstract : Values of  $R_f$  were determined for quinoline bases (QB) on Whatman No 4 paper by the method of ascending chromatography. Strips of the paper were saturated with buffer solutions of 0.1 n. citric acid and 0.2 n.  $\text{Na}_2\text{HPO}_4$  containing  $\text{HgI}_2$  as a stabilizer. The paper was dried in air to a moisture coefficient of 1.5 (ratio of weight of moistened strip to weight of dry strip). Then, 0.6  $\mu\text{l}$ . of a 0.05 M QB solution in hexane (H) was applied on the starting line

Card: 1/2



COUNTRY : Poland H-17  
CATEGORY :  
ABS. JOUR. : AZKhim., No. 1959, No. 87568  
AUTHOR : Waksmundzki, A.; Soczewinski, E.  
INST. :  
TITLE : Separation of Strychnine and Brucine by the  
Method of Countercurrent Extraction  
ORIG. PUB. : Acta polon. pharmac., 1958, 15, No 4, 279-283  
ABSTRACT : To find the most suitable conditions for the  
separation of strychnine and brucine by the method of  
countercurrent extraction, the distribution coefficients  
of these alkaloids in different systems were determined  
at different pH values of the aqueous phase. It is shown  
that the greatest difference in distribution coefficient  
values occurs on using the system benzene - citrate-phosphate  
buffer of pH 7.2, as a result of which a complete sepa-  
ration of these alkaloids is effected.

CARD:

4

The relation between  $R_f$  values and partition coefficients, ionization constants, and pH of the water phase in buffered paper chromatography of weak organic acids and bases. Andrzej Waksymundzki and Edward Szczewinski (Univ. Lublin, Poland). *Roczniki Chem.* 32, 863-70 (1958) (English summary).—Formulas are derived relating the value of  $R_f$  of weak org. acids and bases to their partition coeffs., ionization consts., pH of buffered paper and the ratio of vols. of the moving and stable phases. Buffered paper chromatography of quinoline and isoquinoline was effected with hexane as the moving phase, at various pH values of the water phase, and ionization consts. of the bases were calcd. The theoretical curve of  $R_f$  vs. pH agreed very well with the exptl. one. The curve obtained for 2-hydroxy-3-naphthoic acid with Et<sub>2</sub>O as solvent follows qualitatively the theoretical predictions.

A. Kręglewski

WAKSMUNDZKI, Andrzej; SOCZEWINSKI, Edward

Parameters influencing  $R_f$  values of organic amphoteric substances  
buffered paper chromatography. Roczniki chemii 33 no.6:1423-1430 '59.  
(EEAI 9:9)

1. Zaklad Chemii Fizycznej Uniwersytetu Marii Sklodowskiej-Curie,  
Lublin i Zaklad Chemii Nieroganicznej Akademii Medycznej, Lublin.  
(Organic compounds) (Chromatography)  
(Amphoteric substances)

WAKSMUNDZKI, A.; SOCZEWINSKI, E.

A paper chromatography method for determination of suitable solvent systems for countercurrent distribution. Bul chim PAN 9 no.3: 155-158 '61.

1. Department of Physical Chemistry, University, Lublin and Department of Inorganic Chemistry, School of Medicine, Lublin. Presented by W. Kemula.

(Chromatographic analysis) (Solvents)

SOCZEWINSKI, E.; WAKSMUNDSKI, A.

On the relation between the  $R_M$  coefficient and hydrogen ion concentration in buffered paper chromatography. Bul chim PAN 9 no.6:445-449 '61.

1. Department of Inorganic Chemistry, Medical Academy, Lublin and Department of Physical Chemistry, University, Lublin. Presented by B. Kamienski.

WAKSMUNDZKI, A. zej; SOCZEWINSKI, Edward; PRZYBOROWSKA, Maria

The factor  $R_f$  of organic electrolytes in linear and circular chromatography by means of the buffered filter paper method.  
Chem anal 7 no.5:989-993 '62.

1. Department of Inorganic Chemistry, Academy of Medicine, Lublin.

WAKSMUNDZKI, Andrzej; RATAJEWICZ, Danuta; SOCZEWINSKI, Edward

A rapid method for the chromatographic analysis of mixtures of  
brucine and strychnine. Acta pol. pharm. 19 no.1:44-47 '62.

1. Z Katedry Chemii Nieorganicznej Wydziału Farmaceutycznego Akademii  
Medycznej w Lublinie Kierownik: prof. dr A. Waksmundzki.  
(ALKALOIDS chem) (STRYCHNINE chem)

JUSIAK, Leon; SOCZEWINSKI, Edward; WAKSMUNDZKI, Andrzej

Partition of chelidone and protoxine by means of countercurrent cascade extraction. Acta pol. pharm. 19 no.3:193-198 '62.

1. Z Zakladu Chemii Nieorganicznej Akademii Medycznej w Lublinie  
Kierownik: prof. dr. A. Waksmundzki.  
(CHELIDONIUM chem) (ALKALOIDS chem)  
(CHROMATOGRAPHY)



WAKSMUNDZKI, A.; SOCZEWSKI, E.; SUPRYNOWICZ, Z.

On the relation between the composition of the mixed stationary phase and the retention time in gas-liquid partition chromatography. Coll Cz Chem 27 no.8:2001-2006 Ag '62.

1. Department of Physical Chemistry, University Lublin, Poland.

WAKSMUNDZKI, Andrzej; SOCZEWINSKI, Edward; RATAJEWICZ, Danuta

Chromatographic separation of some acridine derivatives. Chem  
anal 8 no.1:103-106 '63.

1. Department of Inorganic Chemistry, Faculty of Pharmacy,  
Academy of Medicine, Lublin.

SOCZEWINSKI, Edward

Separation efficiency in buffered paper chromatography of organic electrolytes. Rocz chemii 37 no.4:467-479 '63.

1. Department of Inorganic Chemistry, Medical Academy, Lublin.

SOCZEWINSKI, Feliks (Warszawa)

Development of the Workshop Family Vacationing Movement.  
Przegl budowl i bud mieszk 33 no. 78441-442 J1'61

BOGZEMBA, Henryk; SEWEL, Mikolaj; WYSTYTTEL, Lucyna; ZAMENBA, Wladyslaw

Diagnostic value of Sternheimer-Malbin cells. Pol. tyd. lek. 20  
no.39:1459-1460 27 S '65.

1. Studenckie Koło Naukowe przy II Klinice Chorob Wewnętrznych  
AM w Białymstoku (Kierownik: prof. dr. Jakub Chlebowski).

SOCZYŃSKA, Eugenia Urszula

Computation of momentary runoff coefficients in forecast of floods on mountain streams caused by rainfall. Acta geophys Pol 11 no.3:161-170 '63.

1. State Hydrological and Meteorological Institute, Warsaw.

SOCZYNSKA, Urszula

Application of the coaxial method to the determination of the  
flood parameters in mountain streams. Przegl. geofiz. 8 no.1/2:  
65-74'63.

1. Polski Instytut Hydrologiczno-Meteorologiczny, Warszawa.

SOCZYNSKA, Urszula

Zenon Pietka, August 20, 1931-January 25, 1964. Przegl  
geofiz 9 no. 2:176 '64.



SOCZYNSKI, S.

Polish Technical Abst.  
No. 1 1954  
Agriculture, Food Processing  
Industry, Forestry, Fisheries

2656 663.14.038 : 664.872.03 : 66.047.005  
(2)  
✓ Soczyński S. Production of High Quality Dried Bakery Yeast.  
✓ „Otrzymywanie dobrej jakości drożdży suszonych piekarnianych”.  
✓ (Prace Gł. Inst. Przem. Roln. i Spoż. No. 3), Warszawa, 1952, PWT, 32  
pp., 21 tabs.

Conditions for the production of a good quality bakery yeast and  
guiding principles for designing a suitable type of dryer were worked  
out. The properties of the raw material were determined, together with  
the conditions for drying yeast and characteristic properties of high  
quality dried bakery yeast. The problem of yeast strains is discussed,  
as also the conditions of production of raw material. Optimum condi-  
tions for storing dried yeast are given, and the methods of evaluating  
and properly utilizing yeast.

SOCZYNSKI, S.

"Producing Dry Yeast of High Protein Content." p.35  
(PRZEMYSŁ ROLNY I SPOŻYWCZY Vol. 7, no. 1, Jan. 1953 Warszawa, Poland)

SO: Monthly List of East European Accessions, LC, Vol. 3, no. 5, May 1954/Uncl.

Poland/Chemical Technology. Chemical Products and Their Application -- Fermentation industry, I-27

Abst Journal: Referat Zhur - Khimiya, No 2, 1957, 6466

Author: Socsynski, St.

Institution: None

Title: Investigation of Molasses Processed in the Fermentation Industry

Original

Publication: Przem. rolny i spozywczy, 1954, 8, No 11, 430

Abstract: To determine the causes of decreasing yields of yeast and a deterioration of its quality as well as of deterioration of the fermentation process in the alcohol industry, an investigation was made of 50 samples of molasses collected at the processing plants. Methods of chemical determinations have been selected and adapted, in simplified form, for determination of the sugars, pH, volatile acids, SO<sub>2</sub>, colloids, ash, CaO, foaming and color.

Card 1/1

SOCZYNSKI, S.

A quick method of determining reducing substances, especially sugars. p. 416

Vol. 9, no. 10, Oct. 1955

PRZEMYSŁ SPOŻYWCZY

Warszawa

SOURCE: East European Accessions List (EEAL) IC. Vol. 5, no. 3, Mar. 1956

Up-to-date results of investigations of molasses delivered to (Polish) fermentation industry. Stanisław Soczyński. *med*  
Gaz. Cukrownicza 57, 228-30(1955).—Yeast plants and EtOH plants suffer losses when molasses delivered to them has a volatile-acid content above 1.00%, a colloid content above 8.5%, and a degree of purity above 65%. S. investigated 65 different cases and analyzed each batch for: d. (75-83° Brix), sugar by polarization (47-52%), degree of purity (59-65), pH (7.1-9.0), volatile acids (1.00-1.00%), SO<sub>2</sub> (below 0.05%), color (1-3), colloids content (below 8.0%), and N (1.4-2.0%). F. J. Hendel

SOCZINSKI, S

STANISLAW SOCZINSKI

POLAND / Chemical Technology, Chemical Products and Their  
Application. Part 3 - Carbohydrates and Their  
Treatment.

H-25

Abs Jour : Ref. Zhur. Khimiya, No 4, 1958, 12737.

Author : Stanislaw Soczinski.

Inst : Not given

Title : Study of Molasses for Fermentation Industry. Part II.

Orig Pub : Przem. spozywczy, 1956, 10, No 4, 180 -181.

Abstract : A method of pH, SO<sub>2</sub> and ash determination in molasses  
(M) was developed. It was found that dilute M should not  
be used for pH determination. It was shown that the M com-  
position did not change during a prolonged storage.  
Soviet scientists determined that the content of carbonate  
ash in M was from 8.1 to 11.1%. It was established that

Card 1/2

POLAND / Chemical Technology, Chemical Products and Their  
Application. Part 3 - Carbohydrates and Their  
Treatment.

H-25

Abs Jour : Ref. Zhur. Khimiya, No 4, 1958, 12737.

Abstract : the amount of volatile acids and  $\text{SO}_2$  did not change at the clarification in acid medium in the cold, but the amount of colored substances decreased; in the case of clarification at a raised temperature, the volatile acids and  $\text{SO}_2$  were discharged depending on the temperature and the clarification duration, and the amount of colored substances decreased a little less than at clarification in the cool. The quality of normal M does not change at the clarification of acid M at  $100^\circ$  in the duration of 5 hours, and the quality of imperfect M improves. See Part L in RZhKhim, 1957, 6466.

Card 2/2

POLAND / Chemical Technology. Chemical Products.  
Fermentation Industry.

H

Abs Jour: Ref Zhur-Khimiya, 1958, No 20, 68926

Author : Soczynski S.

Inst : Not Given.

Title : Molasses a Raw Material in the Alcohols and Yeast  
Manufacture.

Orig Pub: Przem. spozywczy, 1958, 12, No 1, 3-7.

Abstract: Methods of evaluation of molasses suitable as a  
raw material for the production of alcohols and  
yeast are reviewed. Experience of refining var-  
ious grades of molasses and particularly that used  
by the Poland National Republic's refineries is  
summarized. Bibliography includes 45 names.

Card 1/1



SOCZYNSKI, S.

Molasses as a raw material for the production of spirits and yeast.

P. 3 (PRZEMYSŁ SPOŻYWCZY) (Warsaw, Poland) Vol. 13, no.1, Jan. 1958

SO: Monthly Index of East European Accession (EEAI) LC Vol. 7, No. 5. 1958.

SODAN, Milan, ing. (Zagreb)

Frequency and power control in electric power supply systems and its application in the Yugoslav network. Energija Hrv 10 no. 3/4:89-100 '61.

1. Zajednica elektroprivrednih poduzeca Hrvatske, Zagreb, Proleterskih brigada 37.

SODAN, Milan, ing. (Zagreb)

Examination of the characteristics of the Yugoslav electric power network.  
Energija Hrv 10 no. 5/6:188-189 '61.

1. Zajednica elektroprivrednih poduzeca Hrvatske, Zagreb, Proleterskih brigada 37.

NOVAK, Vjekoslav, ing. (Zagreb); SODAN, Milan, ing. (Zagreb)

Examination of characteristics of the automatic regulators of the number of rotation in the electric power plants of Croatia. Energija Hrv 10 no. 7/8:253-255 '61.

1. Zajednica elektroprivrednih poduzeća Hrvatske, Zagreb, Proleterskih brigada 37.
2. Člen Urednickog odbora, "Energija." urednik rubrike "Energetsko-dispacerska problematika" (for Sotan).

SODAN, Milan, inz. (Zagreb)

Is the old thermoelectric-power economical or not? Energija Hrv  
11 no.7/8:235 '62.

1. Zajednica elektroprivrednih poduzeca Hrvatske, Zagreb,  
Proleterskih brigada 37, clan Urednickog odbora, "Energija".

SODEC, Franc, dipl. inz. metalurgije

Annealing of stainless steels in protective atmosphere.  
Rud met zbor no. 2:169-174 '64.

1. Department of Mining and Metallurgy, Faculty of Natural  
Sciences and Technology, University of Ljubljana, Askerceva  
20, Ljubljana.

SODEIKAITE B.

DAGIS, I.; GUDINIENE, B.; PUTRIMAS, A.; SODEIKAITE, B.; JANKEVICIUS, K.

Dynamics of phytoncides of the meadow buttercup during its vegetative period. Bot.zhur. 39 no.5:721-733 S-O '54. (MLHA 7:11)

1. Institut biologii Akademii nauk Lit. SSR; Vil'nyuskiy Gosudarstvennyy universitet.  
(Phytoncides) (Buttercup)

L 2205-66 EWT(d)/EWP(v)/EWP(k)/EWP(h)/EWP(l)

ACC NR: AT5028446

SOURCE CODE: UR/2690/65/009/000/0049/0058

AUTHOR: Sodell', B. B.

ORG: none

TITLE: Determining the transfer function of a dynamic system with constant parameters

36  
B+1

SOURCE: AN LatSSR. Institut elektroniki i vychislitel'noy tekhniki. Trudy. v. 9, 1965. Avtomatika i vychislitel'naya tekhnika, 49-58

TOPIC TAGS: control system, dynamic system, control theory, transfer function determination

ABSTRACT: It is shown how the method for determining the transfer function of a dynamic system with constant parameters developed by A. N. Sklyarevich (Sklyarevich, A. N. Operatornyye metody v statisticheskoy dinamike avtomaticheskikh sistem. "Nauka", M., 1965) can be extended to the case when the poles of the transfer function of the system and the Laplace transform of the correlation function of the input signal do not coincide and are of order higher than one. A procedure for determining the cross-correlation function of the input and output signals is presented. This cross-correlation function is used as a basis for deriving a system of algebraic equations for determining the coefficients of the frequency response function and a recurrence formula for their calculation is presented. It is stressed that the results obtained

Card 1/2

UDC: 62-5:519.25

62-5.132



L 7705-66

0701A100

ACC NR: AT5028446

here can be utilized in designing a special-purpose computer for calculating the transfer functions. Two examples illustrate the calculation procedure. Orig. art. has: 26 formulas.

[LK]

SUB CODE: MA, ME/ SUBM DATE: none/ ORIG REF: 003/ ATD PRESS: 4142

Cord 2/2

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 10,  
p 17 (USSR) 15-1957-10-13578

AUTHORS: Furrer, M. A., Soder, P. A.

TITLE: Oligocene-Miocene Marine Formations in the Kum Region  
(Central Iran) /Oligo-miotsenovaya morskaya formatsiya  
v rayone Qum (Tsentral'nyy Iran)/

PERIODICAL: V sb: 4-y Mezhdunar. neft. kongress, vol 1, Moscow,  
Gostoptekhizdat, 1956, pp 261-272

ABSTRACT: The Tertiary rocks of Qum have been divided into the  
following formations: /Quaternary deposits/, an upper  
red-bed formation (miocene-pliocene), a marine formation  
(middle Oligocene-lower Miocene), a lower red-bed forma-  
tion (lower Oligocene), and Eocene rocks. The Eocene  
consists of andesites interbedded with tuffaceous and  
calcareous rocks which contain large numbers of foramin-  
ifers (nummulites, operculinids, discocyclinids, pseudo-  
clavulinids, miliolids, and alveolinids), corals, and  
echinoids. The lower red-bed formation consists of red

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Oligocene-Miocene Marine Formations in the Qum Region (Central Iran) 15-1957-10-13578

and green silty shales, gypseous sandstones and marls, and volcanic and pyroclastic rocks, extremely poor in fossils. Its lower Oligocene age is determined by its position between fossiliferous upper Eocene and middle upper-Oligocene beds. A number of lithologic units are distinguished in the marine formation. From the base upward, these are as follows: 1) basal limestone, consisting of fragments of lithothamnion, bryozoans, and occasional foraminifers (Miliolina, Textularia, Peneroplis, and Operculina)--20 to 180 m thick; 2) sandy marls with numerous small foraminifers of the genera Cyclammina, Textularia, Quinqueloculina, Massilina, Robulus, Nodosaria, and Bulimina, and also very occasional ostracods, bryozoans, and echinoid spines--60 to 450 m thick; 3) interbedded marls and limestones, consisting of fragments of lithothamnion and bryozoans, with pectens, small gastropods, echinoids, and foraminifers (Miliolina)--430 m thick; 4) gypsum and anhydrate--15 to 20 m thick; 5) greenish-gray marls with abundant small foraminifers (approximately 300 species), ostracods, and echinoid fragments--90 m thick; and 6)

Card 2/4

15-1957-10-13578

Oligocene-Miocene Marine Formations in the Qum Region (Central Iran)

upper limestone, light-colored, porous, chalk-like limestones with large numbers of foraminifers, bryozoans, and gastropods-- 50 to 60 m thick. The boundary between the Oligocene and Miocene is placed at the floor of the upper limestone. A specific species of foraminifer, Neoalveolina curdica Reichel, occurs in the marine formation, accompanied by Miliolina and Peneroplis. These are indicative of a warm shallow sea, favorable for the growth of coral reefs. The marine formation has a different composition along the northern border of the Qum plain. Here it is divided into 1) basal conglomerates, consisting of lava fragments; 2) basal limestones, corresponding to unit one of the southern section; 3) yellow marls and limestones, corresponding to unit 3 and, in part, to unit 2 of the southern section; 4) reef limestone, Separe-Rostam; and 5) the limestone Sefidkukh. In comparing the marine formation of the Qum region with the limestone of Asmara in southwestern Iran, a great similarity of fossils is found; this indicates that the limestones formed in the same basin at the same time, the water advancing from the

Card 3/4

15-1957-10-13578  
Oligocene-Miocene Marine Formations in the Qum Region (Central Iran)

southwest and gradually flooding the environs of Qum during the Oligocene. The Asmara limestone and the clastic-carbonate marine formation represent the final phase of marine sediment accumulation in this region. The paper is accompanied by a geologic map of the Qum and Qumain regions, to a scale of 1:1,000,000, and by comparative sections of the marine formation.

Card 4/4

M. Ya. Serova

ALDOVA, E.; SODIA, I.

Shigella mucinase. 1. Method of detection and incidence in  
S. flexneri 2a. Cesk. epidem. 12 no.4:208-214 JI '63.

1. Ustav epidemiologie a mikrobiologie v Praze.  
(SHIGELLA) (INFLUENZA VIRUSES) (MUCIN)  
(HYALURONIDASE)

SODIKOV, E.

Influence of trichodesmototoxicosis on acquired immunity to tuberculosis. Sbor. trud. Uz. nauch.-issl. tub. inst. 3:54-57 '57.  
(MIRA 14:5)

(TUBERCULOSIS—PREVENTION) (TRICHODESMA—TOXICOLOGY)

SODIKOV, E.

Study of the phosphorus metabolism of the brain in trichodesmotoxi-  
cosis in onotuberculous and tuberculous guinea pigs by means of  
radioactive phosphorus. Sbor. trud. Uz. nauch.-issl. tub. inst.  
3:57-61 '57. (MIRA 14:5)

(PHOSPHORUS METABOLISM)

(TUBERCULOSIS)

(TRICHODESMA—TOXICOLOGY)

(BRAIN)

(PHOSPHORUS—ISOTOPES)



SODIKOV, E.: Master Med Sci (diss) -- "Experimental study of the interaction of Trichodesma toxicosis and tuberculosis". Tashkent, 1959. 15 pp (Min Health Uzbek SSR, Tashkent State Med Inst), 250 copies (KL, No 10, 1959, 129)

Sodin, L.

USSR/ Electronics - Radio receivers and transmitters

Card 1/1      Pub. 89 - 10/29

Authors      :    Azat'yan, A.; Ushanev, V.; Levit, N.; Sodin, L, and Baramidze, L.

Title        :    "Urozhay Y-2" radio receiver and transmitter

Periodical   :    Radio 9, 24-26, Sep 1954

Abstract     :    A detailed description, with circuit diagrams, of the "Urozhay Y-2" radio transmitter and receiver is presented. It is a portable transmitting and receiving amplitude-modulation station, redesigned from a similar set named the "Urozhay Y-1". The improvements of the converted set, its auxiliary equipment, power-supply and operation are described in detail. Diagrams.

Institution   :    ...

Submitted    :    ...

Sodin, L. G.

3

621.372.54 : 621.372.412

✓ 1455. CALCULATION OF A SINGLE-CRYSTAL QUARTZ FILTER

L. G. Sodin.

*Radioelektronika*, Vol. 11, No. 7, 63-72 (1956). In Russian.

Expressions are deduced for the amplification factor and resonance characteristics of an amplifier with a single-quartz-crystal filter in its output circuit. The filter is a conventional  $\pi$ -section, whose arms consist of LC-circuits. Two cases are analysed: (1) LC-circuits tuned to quartz resonator frequency, (2) LC-circuits untuned. A design for a band-pass filter of variable width is given.

J.B. Arthur

ADW  
m m

SOV/108-13-12-6/12

6(4), 7(7)  
AUTHORS:

Zhlobinskiy, I. M., Sodin, L. G.

TITLE:

Methods of Calculating and Eliminating Interference Disturbances Occurring During Frequency Transformation (Metody rascheta i ustraneniya kombinatsionnykh pomekh, voznikayushchikh pri preobrazovanii chastoty)

PERIODICAL:

Radiotekhnika, 1958, Vol 13, Nr 12, pp 45-52 (USSR)

ABSTRACT:

The present paper sets out from the consideration of the conditions that are necessary, and not only sufficient, for suppressing interference disturbances. As far as the receiving range is subdivided into some sub-areas the choice of the intermediate frequencies and of the sub-areas is made easier by a sufficient attenuation of the interference disturbances. The task is not to choose an intermediate frequency being lower or higher than those frequency values at which the formation of interference disturbances at any signal frequency is possible but in being able to choose the intermediate frequency for the respective range of signal frequencies between the values at which the dangerous interferences occur. The conditions for the occurrence of interference disturbances are investigated and the

Card 1/2

SOV/108-13-12-6/12

Methods of Calculating and Eliminating Interference Disturbances Occurring  
at Frequency Transformation

formulae for the determination of the frequency of the signal forming the combined interference at the frequency transformation are derived. The conditions for eliminating this interference are investigated. A graphical method is given whereby the intermediate frequency of an aural or panoramic receiver can easily be chosen. There are 5 figures and 4 Soviet references.

SUBMITTED: April 15, 1957

Card 2/2

*Sodin, L.G.*  
9(2)

SOV/19-59-2-154/600

AUTHOR: Sodin, L.G.

TITLE: A Narrow-Band Tube Amplifier

PERIODICAL: Byulleten' izobreteniy, 1959, Nr 2, p 38 (USSR)

ABSTRACT: Class 21a<sup>4</sup>, 29<sup>02</sup>. Nr. 96574 (446373/A-1678 of 21 April 1952). Submitted to the Ministry of Communications Means Industry of the USSR. A narrow-band tube amplifier with a frequency-dependent negative feedback and a quartz resonator in its system. The arrangement is simplified and the control of the transmission frequency facilitated by connecting the resonator to the cathode circuit of the tube, so that it forms a part of the negative feedback system.

Card 1/1

06530

SOV/142-2-2-6/25

9(3)

AUTHOR: Sodin, L.G.

TITLE: The Action of a Compelling Force, Having a Linearly Changing Frequency, on a Passive Linear Circuit With Lumped Parameters

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Radiotekhnika, 1959, Vol 2, Nr 2, pp 175-180 (USSR)

ABSTRACT: Studying the behavior of a linear passive circuit, being under the influence of an alternating frequency excitation, is of interest to various engineering branches. A number of papers was devoted to this problem and some of them provide a very profound analysis [Ref 2,7]. However, a generalized method for solving this problem has not yet been created. The author attempted to create such a general method, using the idea of I.T. Turbovich [Ref 8]. He presents a general solution using the Fourier transformations. The expression providing the sought solution is presented in two versions. A formula is given for the partial solution of the problem, for circuits whose transmission

Card 1/3

06530

SOV/142-2-2-6/25

The Action of a Compelling Force, Having a Linearly Changing Frequency, on a Passive Linear Circuit With Lumped Parameters

function has a finite number of poles. The author shows the importance of the function  $W(z)$  (integral of probability of the complex argument), which was tabulated in [Ref 10]. Using the following formula for the general solution

$$I(t) = \dots$$

The author derives the calculation for the linear passive circuit with lumped parameters, obtaining finally

$$I(t) = \dots$$

Card 2/3



06530

SOV/142-2-2-6/25

The Action of a Compelling Force, Having a Linearly Changing  
Frequency, on a Passive Linear Circuit With Lumped Parameters

There are 10 references, 9 of which are Soviet and 1  
English. This article was  
recommended by the  
Kafedra radiotekhniki Severo-Zapadnogo zaochnogo poli-  
teknicheskogo instituta (Chair of Radio Engineering  
of the Northwestern Correspondence Polytechnic Insti-  
tute)

SUBMITTED: May 27, 1958

Card 3/3

33795

S/108/62/017/002/010/010  
D201/D305

6.4770

AUTHORS: Zhlobinskiy, I.M., and Sodin, L.G., Members of the  
Society (see Association)

TITLE: Reducing the analysis time of discrete radio signal  
spectra by applying the 'active' method of analysis

PERIODICAL: Radiotekhnika. v. 17, no. 2, 1962, 71 - 80

TEXT: The resolving capability of a panoramic analyzer working on  
the principle of sequential analysis, is determined by the pass-  
band  $b$  of the analyzing filter, and is related to the time of ana-  
lysis  $T$  and the swept band  $S$  by the known relationship

$$b_{0.7} = 0.665 \sqrt{\frac{S}{T}} = 0.665 \sqrt{FS} \quad (1)$$

where  $F$  -- the sweep frequency. A.N. Virskiy and V.A. Martynov (Ref.  
2: Sposob uvelicheniya skroosti posledovatel'nogo analiza spektra  
(A Method of Increasing the Speed of Sequential Spectrum Analysis)  
Author's certificate No. 134716) have independently of each other,  
suggested a method of shortening the analysis time with a constant  
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resolving capability of the analyzer. The method consists in the intervals between the adjacent spectral lines being swept quickly and decreasing the change in frequency ( $\gamma = \Delta f$ ) when it reaches the value determined in (1). The decrease should be automatic by acting on the sweep generator by the filter system output pulses. It is suggested in Ref. 2 (Op.cit.) that the sweep speed be controlled directly by the pulse signals. In conjunction with the above the authors suggest two distinct speeds of analysis: Large ( $\gamma_1$ ) - in the intervals between the signals and small ( $\gamma_s$ ) - in the presence of signals. According to (1) the following condition should be satisfied

$$b_{0.7} = 0.665 \sqrt{\gamma_s} \quad (2)$$

The block diagram of the suggested circuit, with which a larger saving in time could be achieved is given in Fig. 4. As may be seen the proposed circuit has a separate filtering system which controls retardation of the sweep. The analysis of the above circuit shows that the parameters of the control system  $b_{0.7c}$  - the 3 db band-

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width of the control system,  $\gamma_1$  - high sweep speed and  $d_{1c}$  - the operating level of the control delay system should be taken from

$$b_{0.7st.c.opt.} = b_{0.7st.f} \sqrt[3]{\frac{4}{Bk_{sc}p_0}} \quad (10)$$

and

$$\gamma_{1 opt} = \gamma_s \sqrt[3]{\frac{16B}{p_0^2 k_{sc}^2}} \quad (11)$$

where  $b_{0.7st.c.opt.}$  - the optimum static 3 db bandwidth of the control channel,  $b_{0.7st.f}$  - the 3 db static bandwidth of the filter channel,  $B = \gamma_1/\gamma_s$ ,  $k_{sc}$  - the rectangularity factor of the control channel at the static operating level  $d_{st.c}$  of the delay channel, and parameter  $p_0 = N_0 b_{0.7f}/S$  where  $N_0$  - the number of signals present in the swept frequency band. The  $d_{1c}$  should be taken as  $\sqrt{2}$

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and  $p_0 \approx 0.05$ . The analysis shows that the control channel should have a minimum number of stages ( $n_c = 1 \div 2$ ) for small dynamic range of input signals, for 40 ÷ 60 db range of input signals  $n_c$  should be increased to 4 ÷ 5. A still greater reduction of the analysis time may be obtained if the filter of the control channel is detuned in the direction opposite to the change in frequency, since in this case the bandwidth may be decreased without the danger of 'sealing-in'. This decrease should be kept small, otherwise the sensitivity of the analyzer will be decreased. There is 1 table, 11 figures and 2 Soviet-bloc references.

ASSOCIATION: Nauchno-tekhnicheskoye obshchestvo radiotekhniki i elektrosvyazi imeni A.S. Popova (Scientific and Technical Society of Radio Engineering and Electrical Communications imeni A.S. Popov) [Abstractor's note: Name of Association taken from first page of journal]

SUBMITTED: March 7, 1961

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38153

S/033/62/039/003/010/010  
E032/E114

3,1720

AUTHORS: Sodin, L.G., Braude, S.Ya., and Men', A.V.  
TITLE: Observations of the spectra of strong bursts of solar  
radio emission in the 10 - 25 Mc/sec range on  
July 14 and 18, 1961

PERIODICAL: Astronomicheskii zhurnal, v.39, no.3, 1962, 542-544  
(+ 1 plate)

TEXT: These measurements were carried out with a 10-40 Mc/sec  
spectral analyser, which included a panoramic receiver with a  
wide-band high-frequency amplifier (10-40 Mc/sec), a heterodyne  
with frequency conversion in the range 136-166 Mc/sec, an inter-  
mediate frequency amplifier (126 Mc/sec), a second frequency  
converter, a second intermediate frequency amplifier (2 Mc/sec)  
and various indicating devices. The pass band of the apparatus  
as a whole was 7 kc/sec. The analyser operates with a multi-  
dipole antenna consisting of 24 dipoles. The effective area of  
the antenna was 350-500 m<sup>2</sup>. The width of the main lobe of the  
polar diagram of the antenna in the E - W plane was about 20°.  
Owing to the considerable background due to terrestrial radio  
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stations, weak and medium bursts could not be observed. On July 12, 1961, at 10 hours 20 minutes U.T. there was a rapid increase in ionospheric absorption followed by an almost complete fading of all radio signals between 10 and 25 Mc/sec. Immediately after this, the solar radiation flux density rose to about  $10^{-19}$  w/m<sup>2</sup> cps and the enhanced emission continued until 10 hours 55 minutes. After the termination of the radio burst the enhanced ionospheric absorption continued for a further four hours. Since the reception of the radio emission was carried out in the side lobes of the antenna no details of the phenomena are reported. On July 18, 1961, at 9 hours 50 minutes U.T., a region of enhanced radio emission was found to move in from the high-frequency side and had a sharply defined low-frequency cut-off. The rate of drift of the low-frequency cut-off was about 2 Mc/sec/sec so that the spectrum was classified as belonging to type II. At 9 hours 56 minutes the intensity of the burst was found to fall and at 9 hours 58 minutes a second burst appeared from the high-frequency end and persisted until 10 hours 30 mins. It was found that the bursts were simultaneous with large

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HAZELYAN, L.L.; BRAUDE, S.Ya.; BRUK, Yu.M.; ZHUK, I.N.; MEN', A.V.;  
RYABOV, B.P.; SODIN, L.G.; SHARYKIN, N.K.

Radio emission spectra of the discrete sources Cassiopeia-A,  
Cygnus-A, Taurus-A, and Virgo-A at frequencies of 12.5 to 40 Mc.  
Izv. vys. ucheb. zav.; radiofiz. 6 no.5:897-903 '63. (MIRA 16:12)

1. Institut radiofiziki i elektroniki AN UkrSSR.



ACCESSION NR: AP4012364

S/0142/63/006/006/0670/0676

AUTHOR: Sodin, L. G.

TITLE: On the dependence of interference immunity of a radio receiver for pulsed signals on the radio and video channel bandwidths

SOURCE: IVUZ. Radiotekhnika, v. 6, no. 6, 1963, 670-676

TOPIC TAGS: interference immunity, pulse radio receiver, receiver radio channel, receiver video channel, radar, signal to noise ratio, optimum detection, optimum filtering, reception under noise conditions, pulsed signal detection reliability, radio channel bandwidth, video channel bandwidth

ABSTRACT: Equations are derived from which to determine the interference immunity of a radio receiver against pulsed signals for arbitrary values of the radio and video channel bandwidths. This problem is of interest since most heretofore developed theories for optimal reception of pulsed signals in the presence of additive stationary normal noise presuppose the use of optimal filter parameters. It is shown that when weak signals are received, the loss

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of interference immunity due to the broadening of the filter ahead of the detector can be compensated by using additional filtration past the detector. In the case of strong signals, filtering ahead and past the detector is equivalent. If the bandwidth of the radio channel is made narrower than optimal, the loss of interference immunity can be offset by using high-frequency emphasis in the filter. The relations are valid for the signal/noise ratio and static characteristics of pulsed-signal detection reliability in normal white noise for arbitrary values of radio and video bandwidths. Orig. art. has: 3 figures and 19 formulas.

ASSOCIATION: Institut radiofiziki i elektroniki AN UkrSSR (Institute of Radiophysics and Electronics, AN UkrSSR)

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S/106/63/000/003/001/004  
A055/A126

AUTHORS: Sodin, L.G., Verbitskiy, I.L.

TITLE: On the calculation of electrically scanned antenna arrays

PERIODICAL: Elektrosvyaz', no. 3, 1963, 8 - 14

TEXT: The calculation of the directive gain of electrically scanned plane multidipole antennas, such as it was reproduced in the articles of Von Aulock (Properties of phased arrays, Proc. IRE, 1960, no. 10) and Thomas King (Gain of large scanned arrays, Trans IRE, AP-8, 1960, no. 6), leads to very coarse and often even incorrect results (at great angles of the pattern). The authors of the present article deduce a set of formulae giving the directive gain for horizontal multidipole antennas composed of parallel short ( $l \leq \frac{\lambda}{2}$ ) dipoles, fed by identical currents (Fig. 1). Considering the directivity pattern  $F(\epsilon, \varphi)$  as consisting of four factors:  $F(\epsilon, \varphi) = F_{\text{dip}}(\epsilon, \varphi) F_{\text{gr}}(\epsilon, \varphi) F_x(\epsilon, \varphi) F_y(\epsilon, \varphi)$ , where  $F_{\text{dip}}(\epsilon, \varphi)$  is the dipole factor, corresponding to the pattern of the Hertz dipole

$$F_{\text{dip}}(\epsilon, \varphi) = 1 - \cos^2 \epsilon \sin^2 \varphi, \quad (1)$$

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$$\text{where } p_{k1} = \sqrt{k^2 a^2 + 1^2 b^2}, \quad q_{k1} = \sqrt{p_{k1}^2 + 4c^2}, \quad R_{k1} = \frac{k^2 a^2}{p_{k1}^2}, \quad T_{k1} = \frac{1^2 b^2}{p_{k1}^2},$$

$$S_{k1} = T_{k1} - \frac{1}{3}, \quad f_1(x) = \frac{\sin x}{x}, \quad f_2(x) = \frac{\sin x - x \cos x}{x^3}, \quad c = \frac{2}{\lambda} h. \quad \text{The}$$

general formulae (6) and (13) are convenient for calculating the antennas with a comparatively small number of dipoles (up to 20 ÷ 30). Two simplified approximate formulae for the directive gain of antennas with a large number of dipoles are deduced in the article (respectively for the cases when one or two dimensions of the antenna are larger in comparison with the wavelength). The obtained formulae permit rendering many times more rapid a sufficiently accurate calculation of the directive gain. For instance, 20 min suffice for calculating (with a computer URAL-1) the directive gain by means of formula (13) at  $N = 4$ ,  $M = 32$ . There are 4 figures.

SUBMITTED: October 2, 1962

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